

5. Hai

Program Name: Hai.java

Input File: hai.dat

Hai has just begun to study regular expressions. Hai has a good idea of how regexes work but is always having to look up the various expressions for characters, sets and groups. To make things easier, Hai has decided to write a program that will make a list of examples for some of the regular expressions they have encountered so far. Their program is going to read a line of text from a file and then compare each word in that line to several regular expressions and then print all the words that match that regular expression.

Input: A single space delimited line of text. On the next line there will be a single number N representing the number of regular expressions to check. N will be followed by N lines where each line contains a single regular expression.

Output: The regular expression left justified in ten spaces followed by all the words in the line of text that match that regular expression each separated by a space. If none of the words match the regular expression, print the regular expression as usual followed by "No matches."

Sample input: *(Note: the line of text will all be on the same line.)*

```
Bill's phone number is 325-456-1234 and his email address is bill@gmail.com.
Let's give him a call ASAP.
3
[a-z]+
\D+
.+m+.+
```

Sample output: *(Note: the output for each regular expression will all be on the same line.)*

```
[a-z]+    phone number is and his email address is give him a call
\D+      Bill's phone number is and his email address is bill@gmail.com.
Let's give him a call ASAP.
.+m+.+    number email bill@gmail.com.
```